

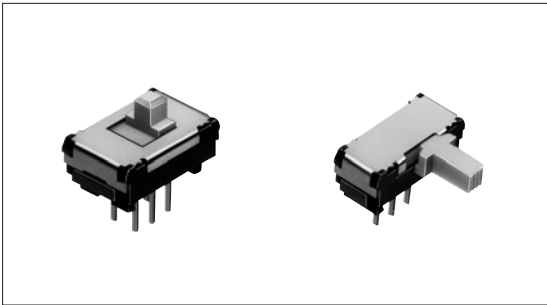
Slide Switch 5(H)mm, 2mm-travel Type

SSSS9 Series



Mid-size general purpose type well established for its user friendliness.

- Detector
- Push
- Slide**
- Rotary
- Encoders
- Power
- Dual-in-line Package Type
- Multi Control Devices
- TACT Switch™
- Custom-Products
- Small size General Use type
- Big size General Use type
- Others



Features

- 2mm-travel.

Applications

- For DVD players/recorders, flat panel TVs, headphone stereos, portable CD players, digital camcorders and various AV equipment
- For switching modes in memory cards
- For switching modes in facsimile machines, cordless telephones and various communication devices
- For switching modes in air conditioners

Typical Specifications

Items		Specifications	
Rating (max.) / (min.) (Resistive load)		0.1A 12V DC/50μA 3V DC	
Contact resistance (Initial performance/After lifetime)		30mΩ max./80mΩ max.	
Operating force		2-positions	3-positions
		3±1.5N	a, c → b 2±1N b → a, c 3±1.5N
Operating life	Without load	10,000cycles	
	With load	10,000cycles (0.1A 12V DC)	

Product Line

Travel (mm)	Actuator direction	Actuator length (mm)	Poles	Positions	Mounting method	Changeover timing	Soldering	Minimum packing unit (pcs.)	Products No.	Drawing No.
2	Vertical	2	1	2	Standard	Non shorting	Manual, Dip	100	SSSS912000	1
					Snap-in (t1.6)				SSSS910400	2
				3	Standard	Not specified			SSSS919500	3
					Snap-in (t1.6)				SSSS918500	4
			2	2	Standard	Non shorting			SSSS922000	5
					Standard	Not specified			SSSS921800	6
		4	1	2	Snap-in (t1.6)	Non shorting			SSSS912500	1
					Standard	Not specified			SSSS910800	2
				3	Standard	Not specified			SSSS919800	3
					Snap-in (t1.6)				SSSS918700	4
			2	2	Standard	Non shorting			SSSS922500	5
					Standard	Not specified			SSSS923200	6
				3	Snap-in (t1.6)				SSSS920600	7

Refer to P.150 for product specifications.

Product Line

Travel (mm)	Actuator direction	Actuator length (mm)	Poles	Positions	Mounting method	Changeover timing	Soldering	Minimum packing unit (mm)	Product No.	Drawing No.
2	Horizontal	2	1	2	Standard	Non shorting	Manual, Dip	100	SSSS916900	8
					Snap-in (t1.6)				SSSS915000	9
				3	Standard	Not specified			SSSS91B900	10
			Snap-in (t1.6)		SSSS91A900				11	
			2	2	Standard	Non shorting			SSSS926400	12
						Not specified			SSSS928500	14
		3		Standard	Not specified	SSSS916400			8	
		4	1	2	Snap-in (t1.6)	Non shorting			SSSS914500	9
					Standard	Not specified			SSSS91B600	10
				3	Snap-in (t1.6)	Not specified			SSSS91A600	11
			2	2	Standard	Non shorting			SSSS925800	12
					Snap-in (t1.6)	Not specified			SSSS923800	13
				3	Standard	Not specified			SSSS928200	14
			Snap-in (t1.6)	Not specified	SSSS925700	15				

Notes

1. Products other than those listed in the above chart are also available. Please contact us for details.
2. Please contact us for automotive use products.

Dimensions

Vertical Actuator Type

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
1	<p>1-pole, 2-positions Standard type</p>	
2	<p>1-pole, 2-positions Snap-in type</p>	
3	<p>1-pole, 3-positions Standard type</p>	

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line Package Type

Multi Control Devices

TACT Switch™

Custom-Products

Small size General Use type

Big size General Use type

Others

Dimensions

Vertical Actuator Type

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
4	<p>1-pole, 3-positions Snap-in type</p>	<p>4-\varnothing0.7 holes</p>
5	<p>2-poles, 2-positions Standard type</p>	<p>6-\varnothing0.7 holes</p>
6	<p>2-poles, 3-positions Standard type</p>	<p>8-\varnothing0.7 holes</p>
7	<p>2-poles, 3-positions Snap-in type</p>	<p>8-\varnothing0.7 holes</p>

Detector

Push

Slide

Rotary

Encoders

Power

Dual-in-line
Package Type

Multi Control
Devices

TACT Switch™

Custom-
Products

Small size
General Use type

Big size
General Use type

Others

Dimensions

Horizontal Actuator Type

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
8	<p>1-pole, 2-positions Standard type</p>	
9	<p>1-pole, 2-positions Snap-in type</p>	
10	<p>1-pole, 3-positions Standard type</p>	
11	<p>1-pole, 3-positions Snap-in type</p>	
12	<p>2-poles, 2-positions Standard type</p>	

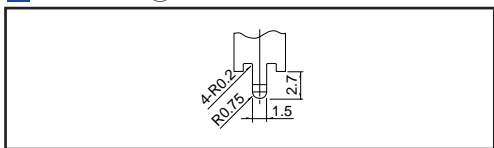
Dimensions

Horizontal Actuator Type

Unit:mm

No.	Style	PC board mounting hole dimensions (Viewed from the direction A)
13	2-poles, 2-positions Snap-in type 	
14	2-poles, 3-positions Standard type 	
15	2-poles, 3-positions Snap-in type 	

Detail of (a) Unit:mm



Circuit Diagram (Viewed from the Direction A)

<p>1-pole, 2-positions Standard type</p>	<p>1-pole, 2-positions Snap-in type</p>	<p>1-pole, 3-positions Standard type</p>	<p>1-pole, 3-positions Snap-in type</p>
<p>2-poles, 2-positions Standard type</p>	<p>2-poles, 2-positions Snap-in type</p>	<p>2-poles, 3-positions Standard type</p>	<p>2-poles, 3-positions Snap-in type</p>

Product Specifications

Items		Series								
		SSAH	SSAD	SSSS8	SSSS7 ※1	SSSS2	SSSS9 ※1	SSSF ※1	SSSU ※1	
Detector	Operating temperature range		-10°C to +60°C		-40°C to +85°C	-10°C to +60°C				
Push	Rating (max.) (Resistive load)		1mA 5V DC		0.3A 4V DC		0.3A 6V DC	0.1A 12V DC	0.1A 30V DC	
Slide	Electrical performance	Initial contact resistance	200mΩ max.	100mΩ max.	70mΩ max.			30mΩ max.	25mΩ max.	
		Insulation resistance	100MΩ min. 100V DC			100MΩ min. 500V DC				
		Voltage proof	100V AC for 1minute			500V AC for 1minute				
Rotary	Robustness of terminal		3N for 1minute					5N for 1minute		
Encoders	Mechanical performance	Robustness of actuator	Operating direction	10N	5N	10N	20N	30N		
Power			Pulling direction	10N	5N	10N Static force		10N	30N Static force	
Dual-in-line Package Type		Vibration	10 to 55 to 10Hz/min., the amplitude is 1.5mm for all the frequencies, in the 3 direction of X, Y and Z for 2 hours respectively							
Multi Control Devices	Resistance to soldering heat	Manual soldering	350±5°C 3s max.	300±5°C 5s max.	260±5°C 3s max.	350±10°C 4s max.	300±10°C 5s max.	350±10°C 5s max.	350±10°C 3 ¹ / ₂ s	
TACT Switch™		Dip soldering	—————			260±5°C 5 ¹ / ₂ s			260±5°C 10±1s	
Custom-Products		Reflow soldering	Please see P.155					—————		
Small size General Use type	Durability	Operating life without load	10,000cycles 300mΩ max.	10,000cycles 100mΩ max.※2			10,000cycles 60mΩ max.	10,000cycles 45mΩ max.		
		Operating life with load Load : As rating	10,000cycles 300mΩ max.	10,000 cycles 200mΩ max.	10,000cycles 130mΩ max.※2		10,000cycles 80mΩ max.	10,000cycles 65mΩ max.		
Big size General Use type	Environmental performance	Cold	-20±2°C for 96h							
		Dry heat	85±2°C for 96h							
		Damp heat	40±2°C, 90 to 95%RH for 96h							
Others										

Notes

- ※1. The operating temperature range for automotive applications can be raised upon request. Please contact us for requirements of this kind.
- ※2. Operating life for SSSS213202 is 100 cycles